

Floods Caused by Tropical Systems: Schuylkill River at Philadelphia

Latitude: 39.968

Period of Record: 1769-Present

Longitude: -75.189

Flood Stage: 11 ft

Last Flood: 5/1/2014

Number of Floods: 65

Date of Crest	Crest (ft)	Streamflow (cfs)	Remarks
10/4/1869	17.00	135,000	On October 4, the "Saxby Gale" hurricane brought widespread heavy rain to the northeastern U.S., from Virginia to Maine. Eastern Pennsylvania collected more than 5 inches. Severe flooding throughout the Mid-Atlantic and New England.
8/24/1933	14.70	96,200	A strong Category 1 storm, the Chesapeake-Potomac Hurricane brought more than 10 inches of rain to Maryland, Delaware and Southern New Jersey. Other locations throughout the Mid-Atlantic measured more than 4 inches of rain.
6/23/1972	14.65	103,000	Hurricane Agnes made landfall again over southeastern New York on June 22 and moved westward into Pennsylvania. Rainfall totals from June 20-25 range from 2-3 inches in the Upper Potomac to 18 inches near Shamokin, Pennsylvania.
8/19/1955	14.32	90,100	Hurricane Diane made landfall 5 days after Hurricane Connie. Hurricane Diane produced several inches of rain with locally heavier amounts of 10 to 20 inches.
9/17/1999	14.10	92,500	Hurricane Floyd produced heavy rainfall from Virginia to Long Island. Rainfall totals ranged from 12 inches in Delaware to 16.57 inches in Newport News, Virginia. Two dams burst in New Jersey and several flood records were broken in New Jersey.
8/28/2011	13.56	83,900	Hurricane Irene brought heavy rains and flooding 26-28 August 2011. Area averaged rainfall from gauge and radar data indicated a broad swath of 3 to 10 inches with over 13" at a couple of spots.
10/1/2010	13.05	76,300	Tropical moisture ahead of a north-south frontal boundary interacted with the remnants of tropical storm Nicole to produce heavy rainfall throughout the Mid-Atlantic. Rainfall amounts of 4"-5" were common, with locally heavier amounts of up to 10".

Drainage Area: 1893 sq mi

Tropical information before 1940 is limited.

County of Gage: Philadelphia

Gage Datum: 5.74 ft MSL

Schuylkill Basin

County of Forecast Point: Philadelphia

Date of Crest	Crest (ft)	Streamflow (cfs)	Remarks
9/8/2011	12.52	68,200	The remnants of tropical storm (TS) Lee moved up the Appalachian Mountains and interacted with a quasi-stationary east-west frontal boundary. 10 to 15 inches fell at numerous locations in Central PA and NY.
10/9/2005	12.07	61,500	Tropical Storm Tammy was absorbed into a cold front and produced 2-day rainfall totals of 4 to 7 inches. Flooding was reported in the Raritan, Passaic, Delaware and Lower Main Stem Susquehanna Basins.
9/7/2011	12.01	60,600	The remnants of tropical storm (TS) Lee moved up the Appalachian Mountains and interacted with a quasi-stationary east-west frontal boundary. 10 to 15 inches fell at numerous locations in Central PA and NY.
9/19/1945	11.92	54,400	The 1945 Southeast Florida Hurricane brought gusty winds and heavy rains to the Mid-Atlantic region.
9/29/2004	11.86	58,500	Hurricane Jeanne stalled a cold front and supplied the front with much-needed moisture. As a result, 1-day rainfall totals ranged from 1 - 6 inches throughout the Mid-Atlantic region.
9/12/1960	11.58	51,200	Hurricane Donna made its second landfall near Wilmington, NC as a Category 3 hurricane. It produced 6 to 8 inches of rain in Eastern Virginia and caused 3 fatalities.
9/18/2004	11.33	51,100	The remnants of Hurricane Ivan, combined with a cold front, produced an average rainfall amount of 2-4 inches in NY, 3-7 inches in PA, 1-3.5 inches in NJ and 2 inches in WV.
8/28/1971	11.26	43,900	Tropical Storm Doria dumped 3 to 7 inches of rain across the region. Localized rainfall amounts of 8 to 10 inches were reported in the Tidewater area, Eastern NJ and Eastern PA.
8/13/1955	11.25	44,200	Hurricane Connie produced 4 to 8 inches of rainfall across the Mid-Atlantic region, with locally heavier amounts exceeding 10 inches.

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County of Gage: Philadelphia
County of Forecast Point: Philadelphia

Date of Crest	Crest (ft)	Streamflow (cfs)	Remarks
10/13/1846	-9999.00	-9,999	A possible category 5 at landfall, a very powerful storm caused memorable flooding the Potomac and Delaware Rivers. The Potomac rose to its highest level in 20 years. The Delaware River rose to its highest level since the 1775 Independence Hurricane.
9/8/1769	-9999.00	-9,999	Torrents of rain from a hurricane caused major damage in Virginia and Philadelphia. In Virginia, farms and buildings were destroyed. In Philadelphia, two mills were washed away, several mill dams broke and bridges were destroyed.
9/3/1775	-9999.00	-9,999	The eighth deadliest hurricane in history, the Independence Hurricane produced heavy rainfall from the Outer Banks of North Carolina to Nova Scotia. It caused flooding in Southeastern Virginia and Philadelphia, Pennsylvania.
9/24/1882	-9999.00	-9,999	A hurricane 10 days prior to this event produced up to 10" of rainfall. This hurricane destroyed 4 mills along the Rappahannock River. It dumped 11" of rainfall in Philadelphia. Most of the damage occurred in New Jersey were up to 18" of rain fell.
10/24/1878	-9999.00	-9,999	A very strong hurricane caused flooding in the Mid-Atlantic region. The Potomac flooded basements around DC. In Philadelphia, the flood waters submerged the first story of buildings, destroyed 385 home and destroyed a major bridge.

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